



DDoS ATTACK MITIGATION

# FortiDDoS™ 800B

QuickStart Guide



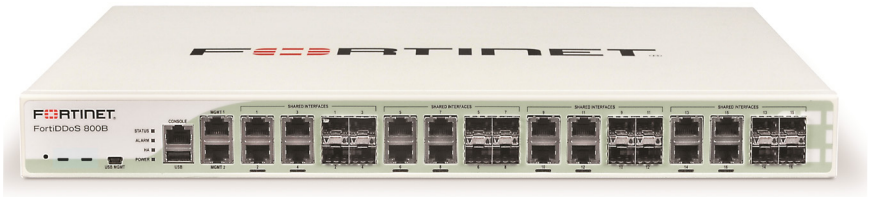
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# Package contents

The box should contain:

- FortiDDoS 800B appliance
- FortiDDoS 800B QuickStart Guide
- Tools and Documentation CD
- Power cable
- Ethernet cable
- Console cable
- USB cable
- 4 Rubber feet
- 2 Rack-mount brackets
- 12 Bracket screws



Power Cable



Console Cable



Ethernet Cable



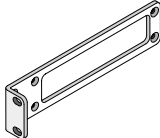
USB Cable



4 Rubber Feet



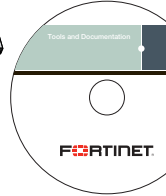
2 Rack-Mount Brackets



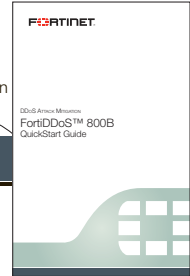
12 Bracket Screws



Tools and Documentation CD



QuickStart Guide

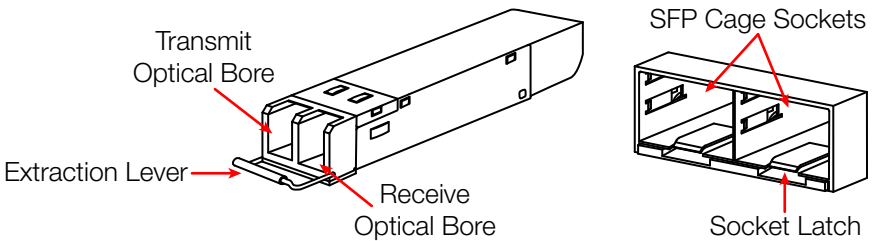


# Installing SFP transceivers

If not already installed, install the SFP transceivers that will be used to connect your appliance to the network.

**Caution:** Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and optical interfaces. It may also prevent the transceiver from latching correctly into the socket.

**Note:** Installing and removing SFP transceivers can shorten their life. Do not install or remove transceivers more than is necessary.



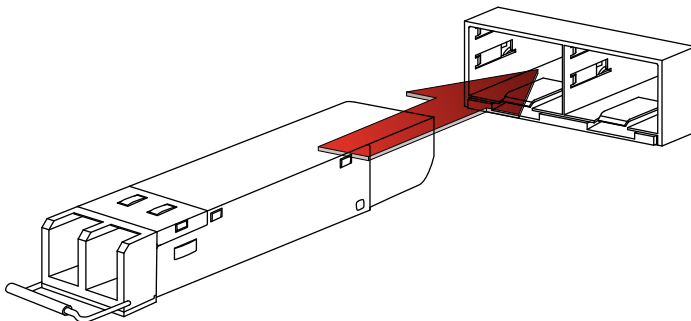
## To install the SFP transceivers

1. On the appliance's front panel, remove the caps from SFP cage sockets.
2. Position the SFP transceiver in front of the cage socket so that the extraction lever is level with the socket latch.

**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented.

3. Holding the sides of the SFP transceiver, gently slide it into the cage socket.

**Caution:** Do not force SFP transceivers into cage slots. Force can cause damage. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign or rotate it, and try again.



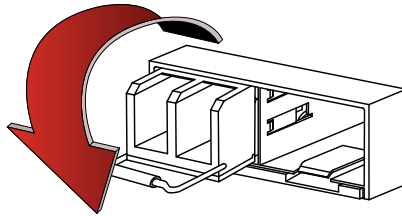
4. Press the transceiver firmly into the cage socket with your thumb until it clicks, indicating that it is latched.
5. To verify that the transceiver is latched, grasp its sides and try to pull it out **without** lowering the extraction lever.

If you can remove the transceiver, it was **not** latched correctly, and could become accidentally dislodged. Try again.

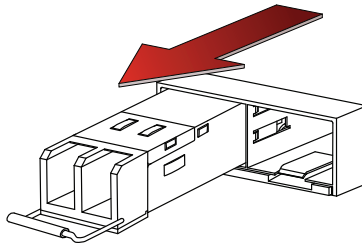
### To remove the SFP transceivers

1. Disconnect the fiber optic cable from the transceiver connector.
2. To prevent dust from entering the optical bores, insert clean plugs.
3. To eject the transceiver, pull the extraction lever out and down.

**Tip:** Instead of using your finger, try a small flat-head screwdriver.



4. Hold the sides of the transceiver and carefully pull it from the cage socket.



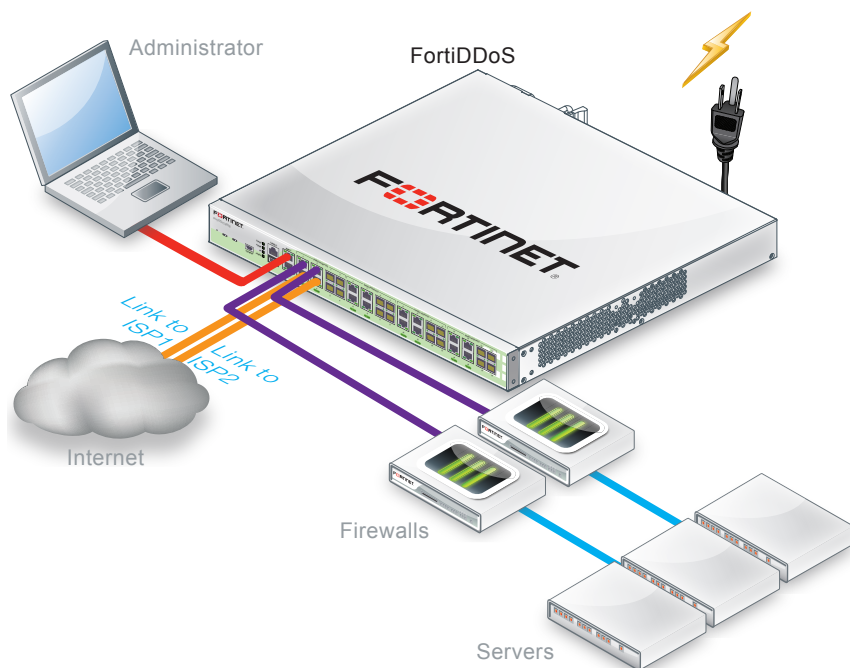
5. Replace the cap on the SFP cage socket.
6. Put the removed SFP transceiver into an anti-static bag.

# Connecting to FortiDDoS

FortiDDoS appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiDDoS appliance on a flat surface, or mount it in any standard 19-inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiDDoS 800B occupies 1U (1.77 inches/4.45 cm).

You can configure FortiDDoS for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiDDoS only to your computer until you finish setup. (If you place FortiDDoS in your network before FortiDDoS is set up, traffic could be interrupted until setup is complete.) **Deployment instructions are in the FortiDDoS Handbook.** One typical, basic network topology is shown below.



**Note:** In this topology, FortiDDoS connects to the network using RJ-45 (copper) ports, which have a built-in bypass mechanism. When you connect using SFP ports, it is recommended that you use optical bypass switches to provide bypass functionality. See the handbook for more information.

## To connect to the web UI

**Requires:** Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect MGMT 1 port of the appliance to your computer.
2. Configure your computer to match the appliance's default MGMT 1 subnet.

For example, on Windows 7, click the *Start* (Windows logo) menu to open it, then click *Control Panel*. Click *Network and Sharing Center*, *Local Area Connection*, and then the *Properties* button. Select *Internet Protocol Version 4 (TCP/IPv4)*, then click its *Properties* button. Select *Use the following IP address*, then change your computer's settings to:

- *IP address:* 192.168.1.100
- *Subnet mask:* 255.255.255.0

3. To connect to FortiDDoS's web UI, start a web browser and go to <https://192.168.1.99>. (Remember to include the "s" in https://.)
4. Type `admin` in the *Name* field, leave the *Password* field blank, then click *Login*.

## To connect to the CLI via serial console

**Requires:** Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:

- *Baud rate:* 9600
- *Data bits:* 8
- *Parity:* None
- *Stop bits:* 1
- *Flow control:* None

3. Press Enter on your keyboard to connect to the CLI.
4. For the username, enter `admin`. Do not enter a password.

# Shutting down



**Always** properly shut down the FortiDDoS appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

**Do not unplug or switch off the FortiDDoS appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.**

## To power off the appliance via the web UI

1. Go to *System > Status > Dashboard*.
2. In the *System Information* widget, click the *Shut Down* button.

You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.

3. Disconnect the power cable from the power supply.

## To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the *CLI Console* widget in *System > Status > Dashboard*.
2. Enter the following command:

```
execute shutdown
```

You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.

3. Disconnect the power cable from the power supply.



# Registering your product

## Register

You must register the product with Fortinet in order to receive:

- Technical support • Software updates
- FortiGuard updates



## Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique • Mises-à-jour logiciel
- Mises-à-jour FortiGuard

## Registra

La registrazione vi permette di usufruire di:

- Supporto tecnico • Aggiornamenti software • Aggiornamenti FortiGuard

## Registrar

Debe registrar el producto para recibir:

- Apoyo técnico • Actualizaciones de software
- Actualizaciones FortiGuard

## 登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

- テクニカルサポート • ソフトウェアのアップデート • FortiGuardのアップデート

## 请马上注册

您的飞塔产品

您在注册以后才能得到技术支持, 软件升级, 及FortiGuard最新威胁防护

Web: <https://support.fortinet.com/>

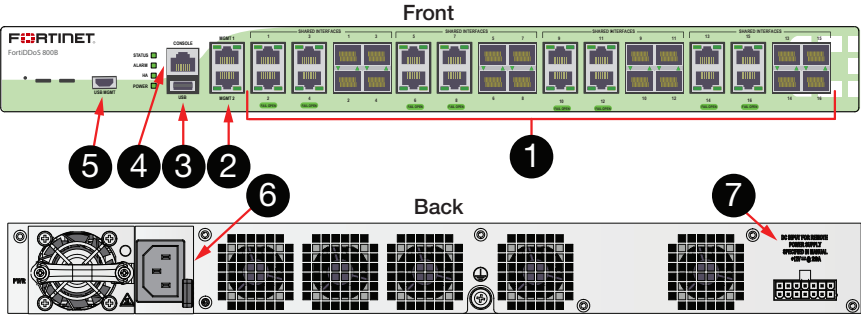
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

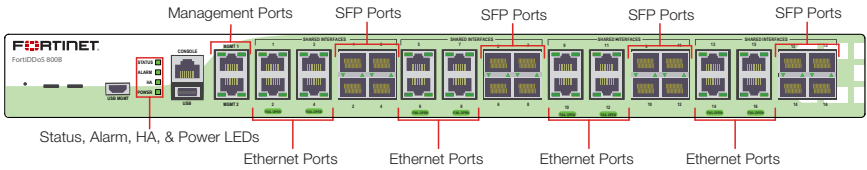
Fax: 1 408 235 7737

Email: [register@fortinet.com](mailto:register@fortinet.com)

# Ports & LEDs



#	Interface	Type	Protocol	Description
1	Ethernet Ports 1 - 16	RJ-45	Gigabit Ethernet	Connections to your network and the Internet.
1	SFP Ports 1 - 16	SFP (SX or LX)	Gigabit Ethernet	Connections to your network and the Internet. SERDES small form-factor pluggable (SFP) transceiver.
<b>Note:</b> Ports 1-16 are shared by the Ethernet and SFP transceivers and are configured in specific link pairs (Ports 1 & 2, Ports 3 & 4, Ports 5 & 6, and so on). Odd-numbered ports are connections to your network (LAN) and even-numbered ports are Internet (WAN) connections.				
2	MGMT 1	RJ-45	Gigabit Ethernet	Management port. Default IP address is 192.168.1.99.
2	MGMT 2	RJ-45	Gigabit Ethernet	Use to synchronize configuration between two appliances.
3	USB Port	USB-A	USB 2.0	Reserved for future use.
4	Console	RJ-45	RS-232 serial	Optional management port. Provides access to the CLI.
5	USB MGMT	USB-B	USB 2.0	USB client port for management.
6	Power Connection			100 - 240 V AC 50 - 60 Hz 4 - 2 A
7	RPS Connection	Connection for a Fortinet FRPS-100 redundant power supply.		



LED	State	Description
Status	Green	The unit is operating normally.
	Flashing Green	The unit is turning on.
	Off	The unit is off.
Alarm		Not used.
HA	Green	The unit is operating in normal HA mode.
	Red	The unit is operating in failover HA mode.
	Off	The unit is not operating in HA mode.
Power	Green	The unit is on.
	Off	The unit is off.
MGMT Ports Activity	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.
MGMT Speed	Green	Port is connected at 1Gbps.
	Amber	Port is connected at 100Mbps.
	Off	Port is connected at 10Mbps or is not in use.
Ethernet Ports Activity	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.
Ethernet Ports Speed	Green	Port is connected at 1Gbps.
	Amber	Port is connected at 100Mbps.
	Off	Port is connected at 10Mbps or is not in use.
Ethernet Ports Fail Open	Green	Port is operating normally.
	Amber, Red	Port is operating in bypass mode.

LED	State	Description
SFP Ports	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.

# Environmental specifications

- **Operating temperature:** 0 - 40°C (32 - 104°F) If you install your Fortinet product in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, make sure to install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tma).
- **Storage temperature:** -25 to 70°C (-13 to 158°F)
- **Humidity:** 5 to 95% non-condensing
- **Operating altitude:** < 2250 m (7380 ft)
- **Air flow:** For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.
- **Circuit overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable earthing:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
- **Interference:** Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

## Safety

- **Mechanical loading:** To avoid personal injury or damage to the appliance, Fortinet recommends that two or more people together install the appliance into the rack. Mounting of the equipment in the rack should be such that it does not cause uneven mechanical loading and tipping. Do not place heavy objects on the appliance.
- **Grounding:** Do not connect or disconnect cables during lightning; this may damage your device or cause personal injury. Connections that enter from outside the building should pass through a lightning and surge protector, and be properly grounded. To prevent damage to your equipment, use an electrostatic discharge (ESD) workstation and/or wearing an anti-static wrist strap when handling. For DC installations, a readily accessible disconnect device must be incorporated in the building installation wiring.
- **Battery:** For devices that contain a battery, there is a risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

# Compliance

## Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**Warning:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

## Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## China

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其采取切实可行的措施。

## European Conformity (CE) – EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

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Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): a three hundred sixty-five (365) day limited warranty for the Hardware excluding spare parts, and, for spare parts, solely a ninety (90) days limited warranty. Fortinet's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor or installation costs, and any other cost which are not directly associated to the Product. Such repair or replacement will be rendered by Fortinet at an authorized Fortinet service facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet may, in its discretion, replace the defective Hardware (or any part thereof) with any reconditioned Product that Fortinet reasonably determines is substantially equivalent (or superior) in all material respects to the defective

Hardware. The Hardware Warranty Period for the repaired or replacement Hardware shall be for the greater of the remaining Hardware Warranty Period or ninety days from the delivery of the repaired or replacement Hardware. If Fortinet determines in its reasonable discretion that a material defect is incapable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by Fortinet upon return to Fortinet of the defective Hardware. All Hardware (or part thereof) that is replaced by Fortinet, or for which the purchase price is refunded, shall become the property of Fortinet upon replacement or refund.

90-day Software Warranty: Fortinet warrants that the software portion of Hardware Products will substantially conform to Fortinet's then current functional specifications for the Software, as set forth in the applicable documentation for a period of ninety (90) days ("Software Warranty Period"), if the Software is properly installed on approved Hardware and operated as contemplated in its documentation. Fortinet's sole obligation shall be to repair or replace the non-conforming Software with software that substantially conforms to Fortinet's functional specifications. Except as otherwise agreed by Fortinet in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by Fortinet for the Software. The Software Warranty Period shall extend for an additional ninety (90) days after any replacement software is delivered. If Fortinet determines in its reasonable discretion that a material non-conformance is incapable of correction or that it is not practical to repair or replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by Fortinet; provided that the non-conforming Software (and all copies thereof) is first returned to Fortinet. The license granted respecting any Software for which a refund is given automatically terminates immediately upon refund. For purpose of the above hardware and software warranties, the term "functional specifications" means solely those specifications authorized and published by Fortinet that expressly state in such specifications that they are the functional specifications referred to in this section 6 of this Agreement, and, in the event no such specifications are provided to you with the Software or Hardware, there shall be no warranty on such Software.

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## 1st Edition

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